

Title (en)

Process for producing a finely porous silicone foam

Title (de)

Verfahren zum Herstellen eines feinporigen Siliconschaumes

Title (fr)

Procédé de préparation d'une mousse de silicone à pores fins

Publication

EP 0593864 B1 19971105 (DE)

Application

EP 93112212 A 19930730

Priority

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- US 14129993 A 19931022

Abstract (en)

[origin: EP0593864A1] In the novel process for the production of a high-quality silicone foam by the free-foaming method, a two-component addition-crosslinking system is used which comprises a component A containing silicone polymer having at least two double bonds per molecule (preferably vinyl groups), an organic platinum catalyst complexed with butinol, pyrogenic silicic acid and water and optionally further additives, and a component B containing silicone polymer having at least two double bonds per molecule (preferably vinyl groups), pyrogenic silicic acid and polydimethylhydrosiloxane as SiH crosslinking agent. The two components A and B are mixed, after which the reaction mixture is charged with compressed gas (preferably compressed air or nitrogen) in a storage (stock) container or the like over the course of several hours, so that the gas is in dissolved form in the mixture. The reaction mixture is subsequently brought to reaction with warming, preferably by application as a film in the desired film thickness, giving a fine-pore, homogeneous silicone foam.

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